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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=5; day=27; hr=8; min=21; sec=10; ms=2; ]

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- <110> BAROJA FERNANDEZ, Miren Edurne
  MUNOZ PEREZ, Francisco Jose
  POZUETA ROMERO, Francisco Javier
  MORAN ZORZANO, Maria Teresa
  ALONSO CASAJUS, Nora
  <120> METHOD OF PRODUCTION OF RECOMBINA
- <120> METHOD OF PRODUCTION OF RECOMBINANT SUCROSE SYNTHASE, USE THEREOF IN THE MANUFACTURE OF KITS FOR DETERMINATION OF SUCROSE, PRODUCTION OF ADPGLUCOSE AND PRODUCTION OF TRANSGENIC PLANTS WHOSE LEAVES AND STORAGE ORGANS ACCUMULATE HIGH CONTENTS OF ADPGLUCOSE AND STARCH

25

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- <140> 10587372
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<213> Solanum tuberosum

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| Gly        | Val<br>130 | Trp        | Glu        | Tyr        | Ile        | Arg<br>135 | Val        | Asn        | Val        | Asn        | Ala<br>140 | Leu        | Val        | Val        | Glu        |
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| Gly        | Ala        | Ser        | Asn        | Gly<br>165 | Asn        | Phe        | Val        | Leu        | Glu<br>170 | Leu        | Asp        | Phe        | Glu        | Pro<br>175 | Phe        |
| Thr        | Ala        | Ser        | Phe<br>180 | Pro        | Lys        | Pro        | Thr        | Leu<br>185 | Thr        | Lys        | Ser        | Ile        | Gly<br>190 | Asn        | Gly        |
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| Gly<br>225 | Lys        | Thr        | Met        | Met        | Leu<br>230 | Asn        | Asp        | Arg        | Ile        | Gln<br>235 | Asn        | Ser        | Asn        | Thr        | Leu<br>240 |
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290 295 300

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Ile Thr Ser Thr Phe Gln Glu Ile Ala Gly Ser Lys Asp Thr Val Gly

525

520

515

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| Glu        | Asn        | Asp<br>595 | Glu        | His        | Leu        | Cys        | Val<br>600 | Leu        | Lys        | Asp        | Arg        | Thr<br>605 | Lys        | Pro        | Ile        |
| Leu        | Phe<br>610 | Thr        | Met        | Ala        | Arg        | Leu<br>615 | Asp        | Arg        | Val        | Lys        | Asn<br>620 | Leu        | Thr        | Gly        | Leu        |
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| Gln        | Ala        | Glu        | Met<br>660 | Lys        | Lys        | Met        | Tyr        | Glu<br>665 | Leu        | Ile        | Glu        | Thr        | His<br>670 | Asn        | Leu        |
| Asn        | Gly        | Gln<br>675 | Phe        | Arg        | Trp        | Ile        | Ser<br>680 | Ser        | Gln        | Met        | Asn        | Arg<br>685 | Val        | Arg        | Asn        |
| Gly        | Glu<br>690 | Leu        | Tyr        | Arg        | Tyr        | Ile<br>695 | Ala        | Asp        | Thr        | Lys        | Gly<br>700 | Ala        | Phe        | Val        | Gln        |
| Pro<br>705 | Ala        | Phe        | Tyr        | Glu        | Ala<br>710 | Phe        | Gly        | Leu        | Thr        | Val<br>715 | Val        | Glu        | Ala        | Met        | Thr<br>720 |
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Glu Lys Tyr Thr Trp Gln Ile Tyr Ser Glu Arg Leu Leu Thr Leu Ala
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                790
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<212> PRT

<213> Solanum tuberosum

<220>

<223> SS5 fused with a histidine-rich amino acid sequence

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35 40 45

Arg Glu Arg Val Asp Ala Thr Leu Ala Ala His Arg Asn Glu Ile Leu 50 60

| Leu<br>65  | Phe        | Leu        | Ser        | Arg        | Ile<br>70  | Glu        | Ser        | His        | Gly        | Lys<br>75  | Gly        | Ile        | Leu        | Lys       | Pro<br>80  |
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